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U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT ATTY, DOCKET NO. 08917-116US1 F 04-047-PCT 10/573.718 Tetsuo Toraya INTERNATIONAL APPLICATION NO. PCT/JP04/14213 69713

OCCHIUTI ROHLICEK & TSAO, LLP 10 FAWCETT STREET CAMBRIDGE, MA 02138

BY:....

PRIORITY DATE I.A. FILING DATE 09/29/2003 09/29/2004

CONFIRMATION NO. 6845 371 FORMALITIES LETTER *OC000000024118809*

Date Mailed: 05/30/2007

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- · Priority Document
- Copy of the International Application filed on 03/27/2006
- English Translation of the IA filed on 03/27/2006
- Copy of the International Search Report filed on 03/27/2006
- Preliminary Amendments filed on 03/27/2006
- Information Disclosure Statements filed on 03/27/2006
- Biochemical Sequence Diskette filed on 03/27/2006
- Oath or Declaration filed on 11/28/2006
- Biochemical Sequence Listing filed on 01/09/2007
- U.S. Basic National Fees filed on 03/27/2006
- Priority Documents filed on 03/27/2006

Applicant's response filed 01/09/2007 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 09/28/2006 have not been completed.

 The paper or compact disc copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). Applicant must provide a substitute paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application OR a substitute computer readable form (CRF) copy of the "Sequence Listing". These two items must be the same. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR

1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact;

- . For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

ANITA D JOHNSON

Telephone: (703) 308-9140 EXT 226

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY, DOCKET NO.
10/573,718	PCT/JP04/14213	08917-116US1 F 04-047-PCT

FORM PCT/DO/EO/916 (371 Formalities Notice)

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/573,718A
Source:	IFWP,
Date Processed by STIC:	17/6/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
 NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on disketire or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 7073 1771
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file westerieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each $\mathbf{5^{th}}$ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s)contain n's or Xan's representing more than one residue. Per Sequence Rules, each n or Xan can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<213> section that some may be missing.
6Patentln 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>~<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>~<225> section to the subsequent amino acid sequence. This applies to the mandatory <220>~<225> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing: If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO.X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO.X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <10> sequence id number <000 sequence id number
Use of n's or Xaa's (NEW RULES)	Use of r's and/or Xaa's have been detected in the Sequence Listing. Per 1823 of Sequence Rules, use of <220~~223> is MANDATORY if n's or Xaa's are present. In <220 to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus'species). <220→<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item I below)
lUse of <220>	Sequence(s) missing the <20°-Feature" and associated numeric identifiers and responses. Use of <220° to <223° is MANDATORY if <213° "Organizin" responses is "Antificial Sequence" or "Unknown. Please explain source of genetic material in <220° to <223° section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules.
2Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indexed on raw sequented on raw sequented listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid
	AMC STIC Sustains Proper 02/02/06



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/573,718A

DATE: 01/18/2007 TIME: 17:05:19

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Does Not Comply
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                                                                     Corrected Districts Needed
              Tobimatsu, Takamasa
              Yamanishi, Mamoru
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              Mori, Kouichi
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              Yamada, Seiki
              Yuzuki, Michio
              Azuma, Muneaki
              Hara, Tetsuva
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              Yasuda, Shinzo
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     12 <130> FILE REFERENCE: 08917-116US1
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/573,718A
                                       R: PCT/JP2004/014213
-09-29
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sel pg //
-09-29
ion 3.1
Muchin response-see item / O on Engly
Junnary
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189			agcgagggcc					2220
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191		acggctgcga	cggcctgtgg	cgcgaagtgc	rgcrgggtat	cgaagaggaa	gytatccctt	2340
192		tccggctcca	gcatcacccg	gccggagagg	tcgtggacag	cgccrggcag	gcggcgcgca	2400

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,718A

DATE: 01/18/2007 TIME: 17:05:19

Input Set: N:\Crf4\01162007\J573728A.raw Output Set: N:\CRF4\01182007\J573718A.raw

193	gctcgccgct	gctggtgggc	atcgcctgcg	accgccatat	gctggtcgtg	cactacaaga	2460
194		atcggcgccg					2520
195	gcaacaccgg	taataacgcg	gcacggctgg	tcaaggggat	ccctttccgg	gatctgaata	2580
196		aggagaacag					2640
197	gcttttttt	atgagaatta	caacttatat	cgtatggggc	tgacttcagg	tgctacattt	2700
198	gaagagataa	attgcactga	aatctagaaa	tattttatct	gattaataag	atgatettet	2760
199	tgagatcgtt	ttggtctgcg	cgtaatctct	tgctctgaaa	acgaaaaaac	cgccttgcag	2820
200	ggcggttttt	cgaaggttct	ctgagctacc	aactctttga	accqaqqtaa	ctqqcttqqa	2880
201		caccaaaact					2940
202		ctaaatcaat					3000
203		tcaagacgat					3060
204		cagtccagct					3120
205		acgcggccat					3180
206		gagggagccg					3240
207		ctgatttgag					3300
208		ctttgccgcg					3360
209		ccgccccgtt					3420
210		gtgagegagg					3480
211		ttttttctcc					3540
212		ccagtataca					3600
213		gtcagtagct					3660
214		acaccatcat					3720
215		aaatacctgt					3780
216		ccgggaagcc					3840
217		ccaactttca					3900
218		tttcaggagc					3960
219		tatcccaatg					4020
220		ataaccagac					4080
221		acaagtttta					4140
222		ttcgtatggc					4200
223		ccgttttcca					4260
224		tccggcagtt					4320
225		atttccctaa					4380
226		tcaccagttt					4440
227		tgggcaaata					4500
228		atgccgtctg					4560
229		atgagtggca					4620
230		gtgctacgcc					4680
231		gacccggtcg					4740
232		accggtttat					4800
233		tttgctcagg					4860
234		caaagcaatt					4920
235		ccggaagaga					4980
236		gagtatgccg					5040
237		tctgcgaaaa					5100
238		cgcgtggcac					5160
239		ctggccctgc					5220
240		ggtgccagcg					5280
241		gtgcacaatc					5340
		303000000	coccogcgca	acgegeouge	2222234664		2240

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/573,718A

DATE: 01/18/2007

TIME: 17:05:20

Input Set : N:\Crf4\01162007\J573728A.raw
Output Set: N:\CRF4\01182007\J573718A.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number